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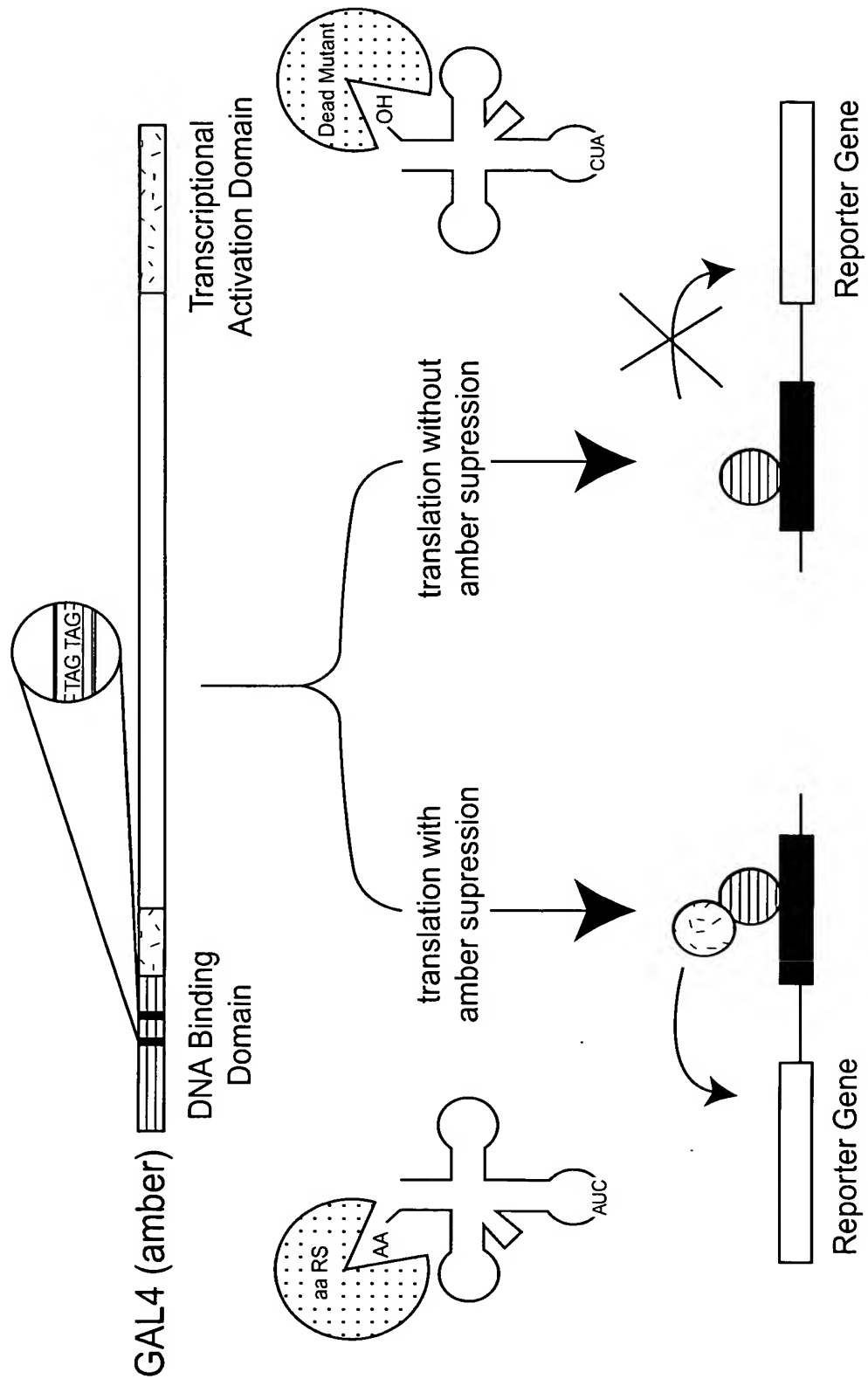


Fig. 1A

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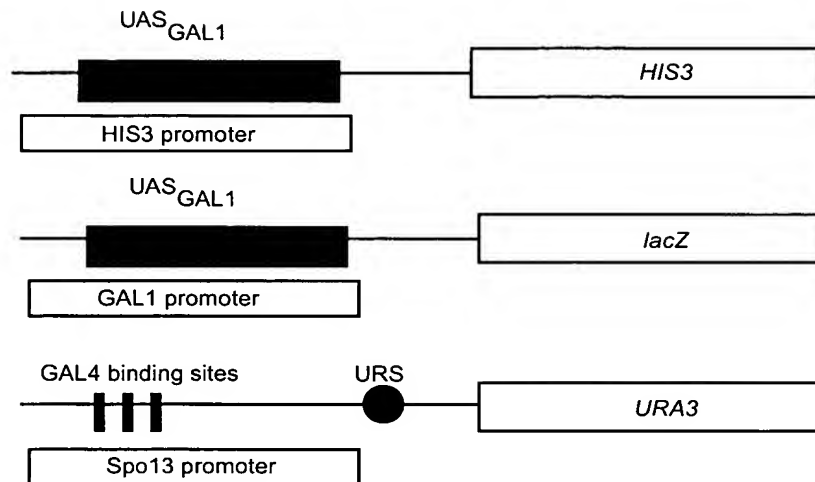


Fig. 1B

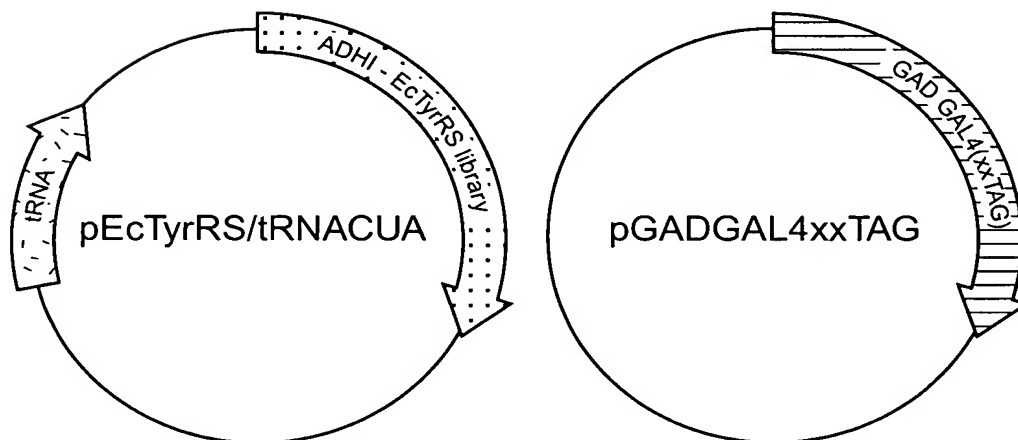


Fig. 1C

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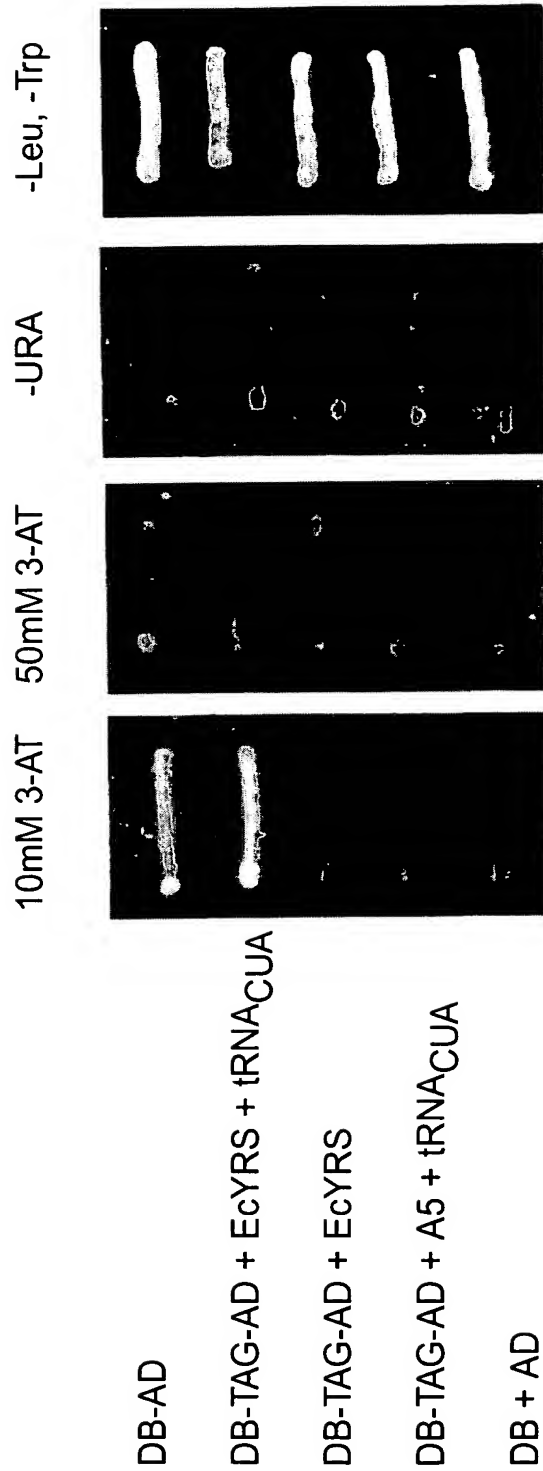


Fig. 2

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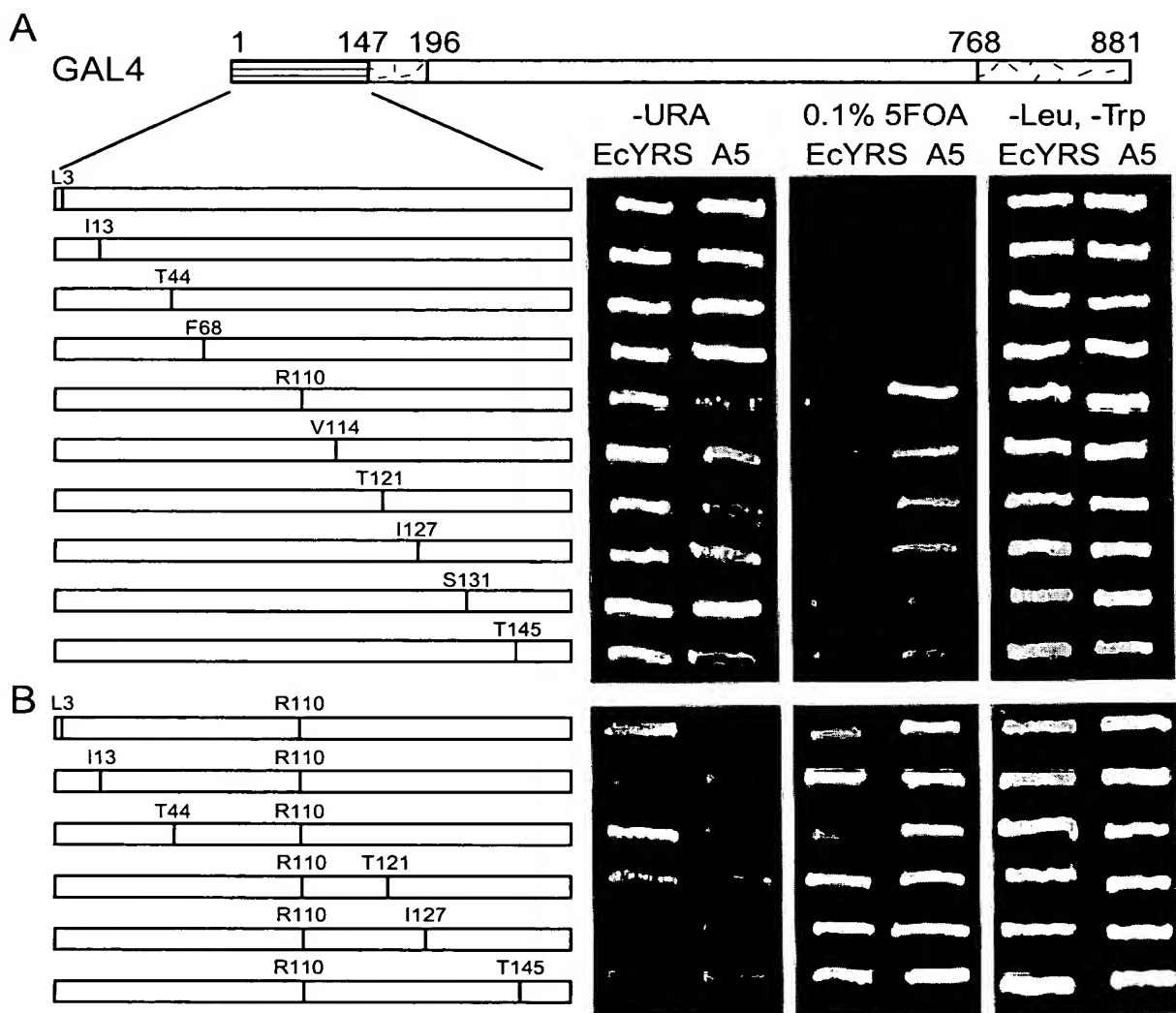


Fig. 3

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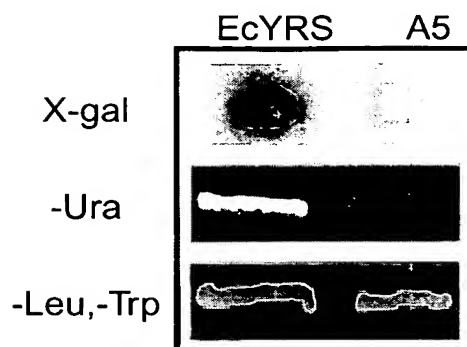


Fig. 4A

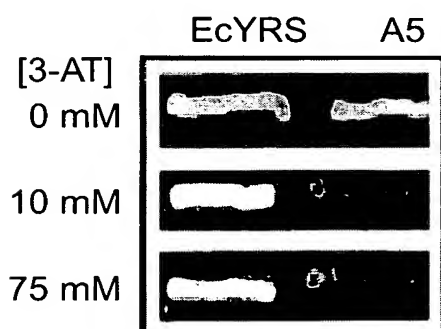


Fig. 4B

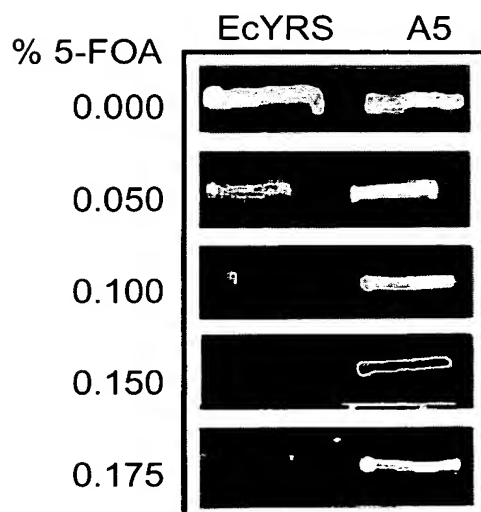


Fig. 4C

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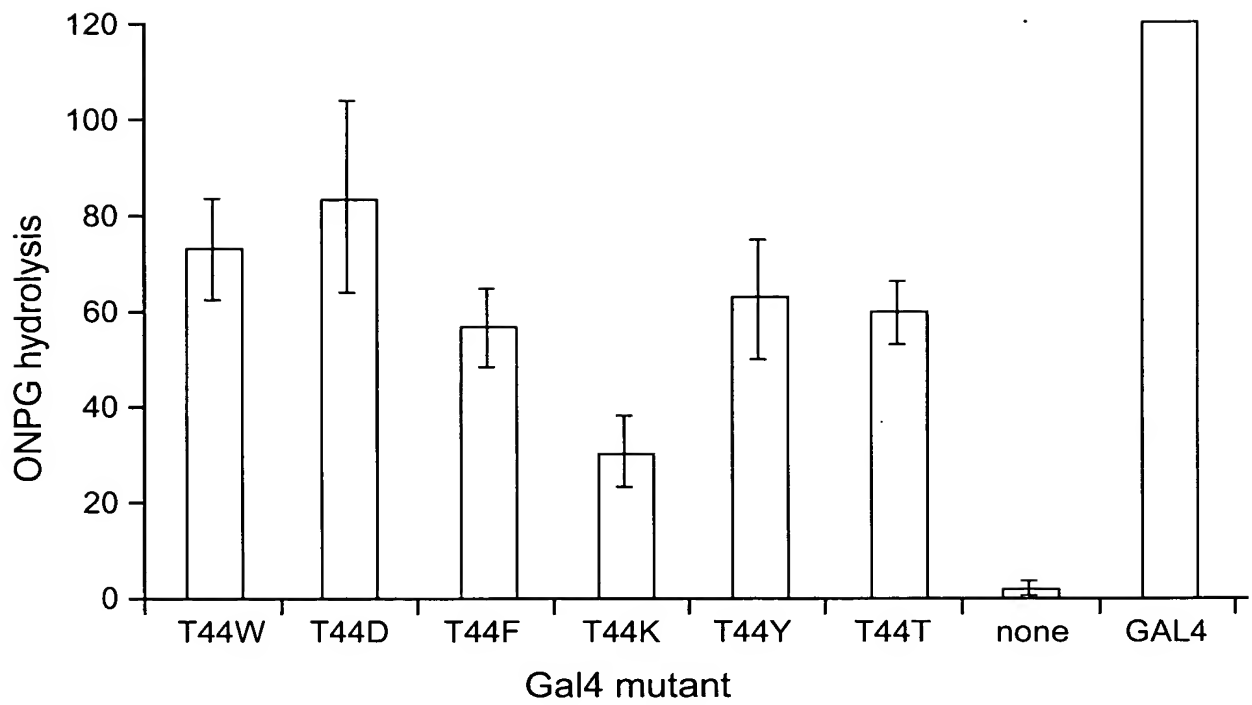


Fig. 5A

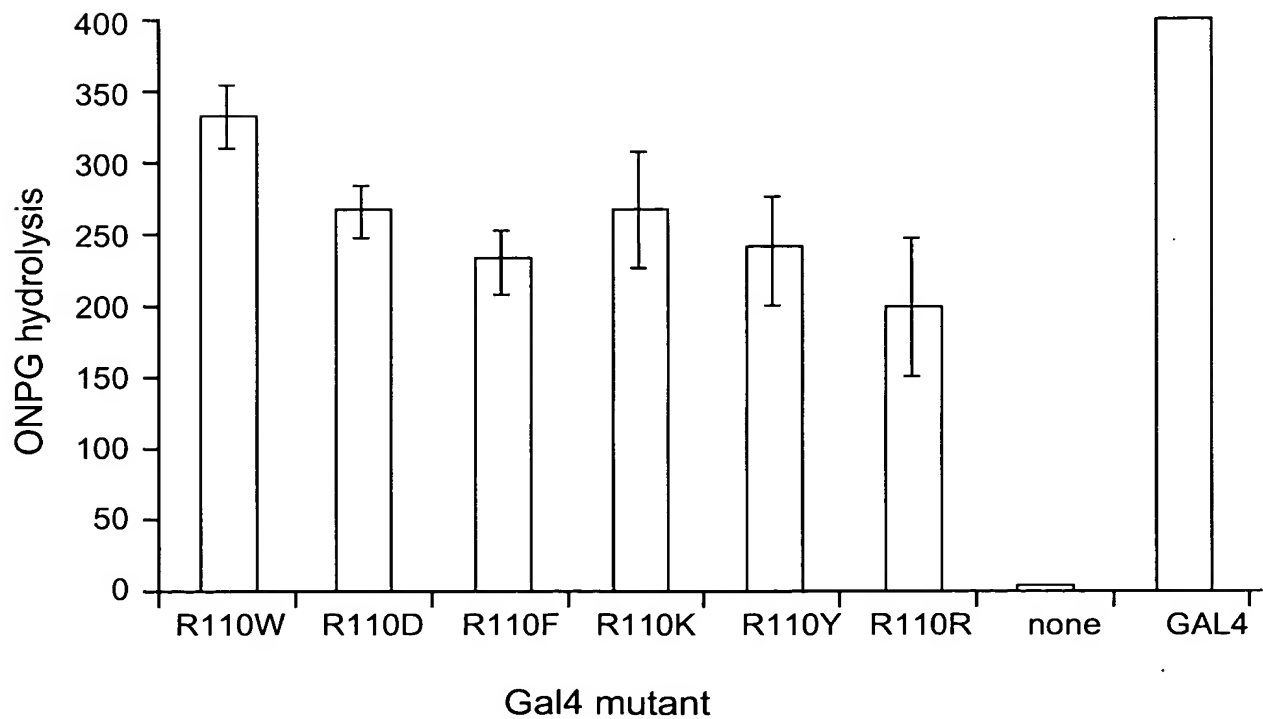


Fig. 5B

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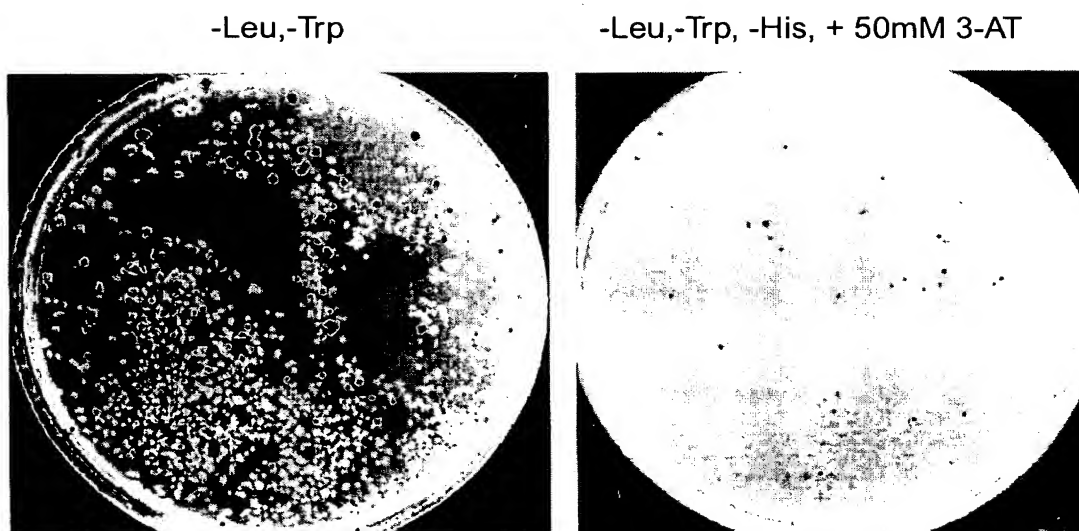


Fig. 6

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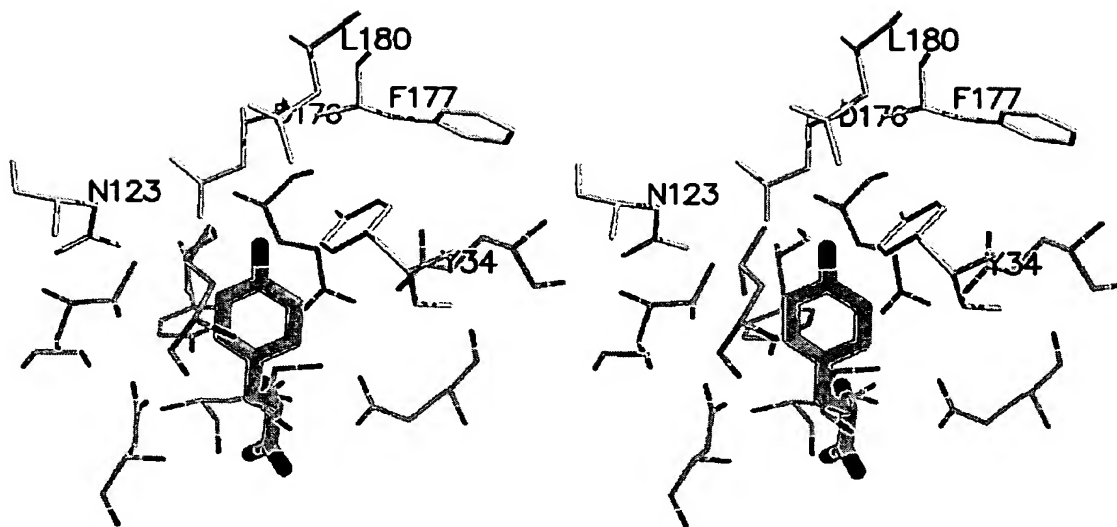


Fig. 7A

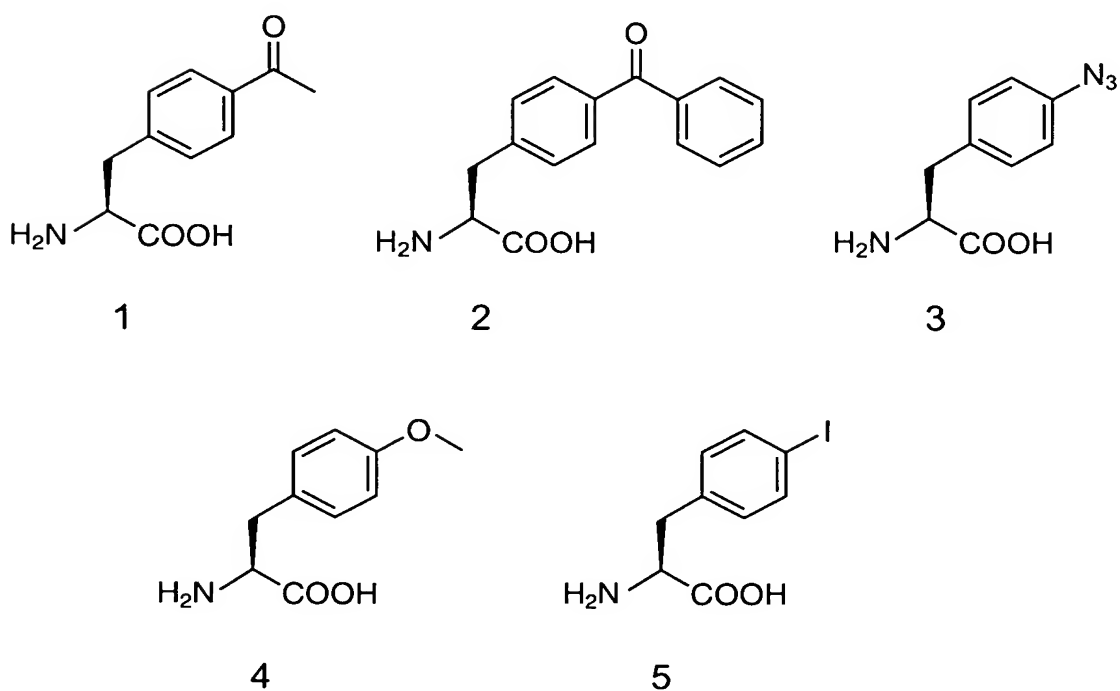


Fig. 7B



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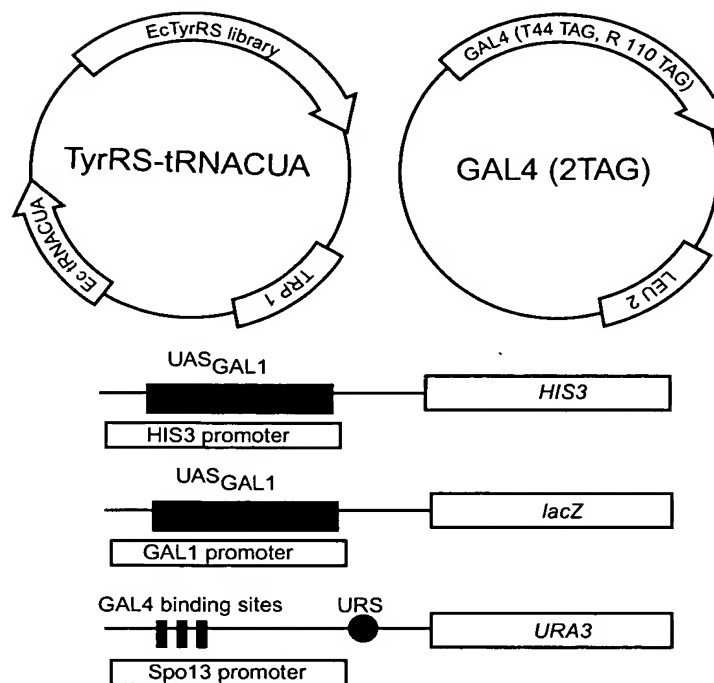


Fig. 8A

aaRS	TyrRS	A5
tRNACUA	+	+
GAL4 (2TAG)	+	+

-leu, -trp

20 mM 3-AT

-Ura

+ X-Gal

+ 0.1% 5-FOA

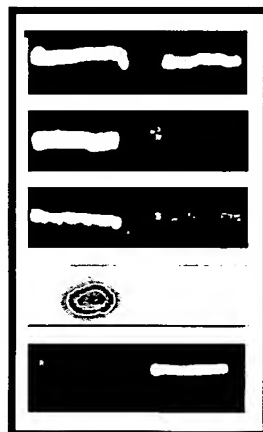


Fig. 8B

Fig. 8D

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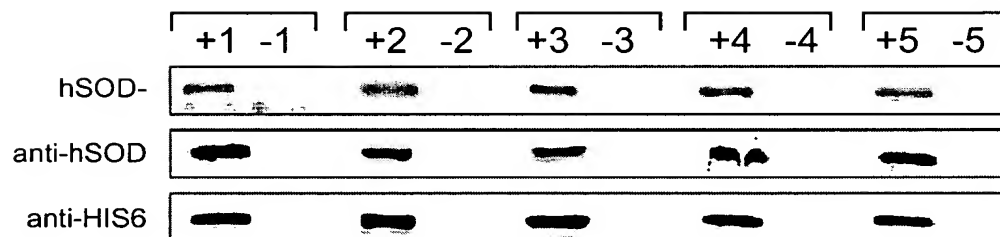


Fig. 9

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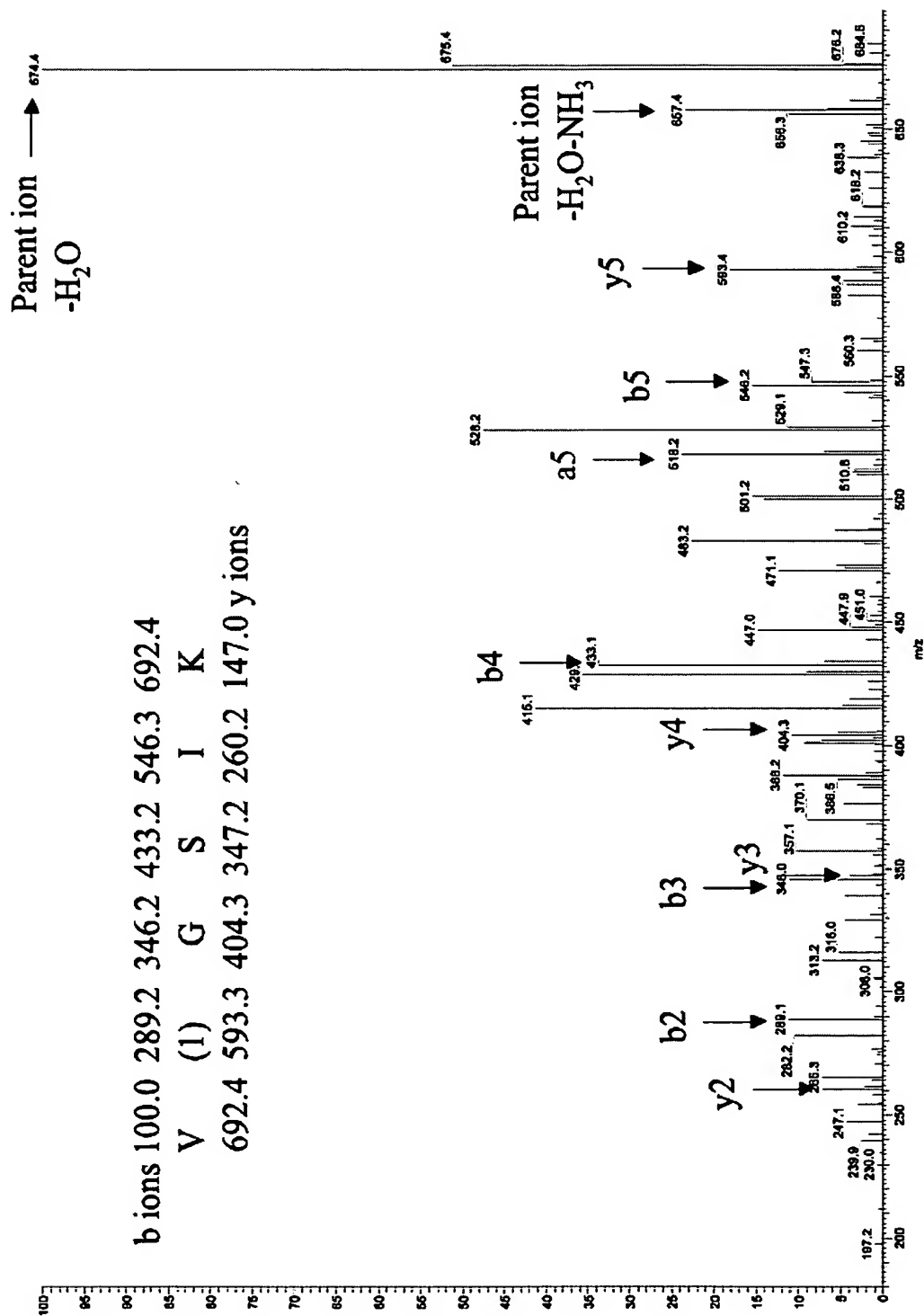


Fig. 10A

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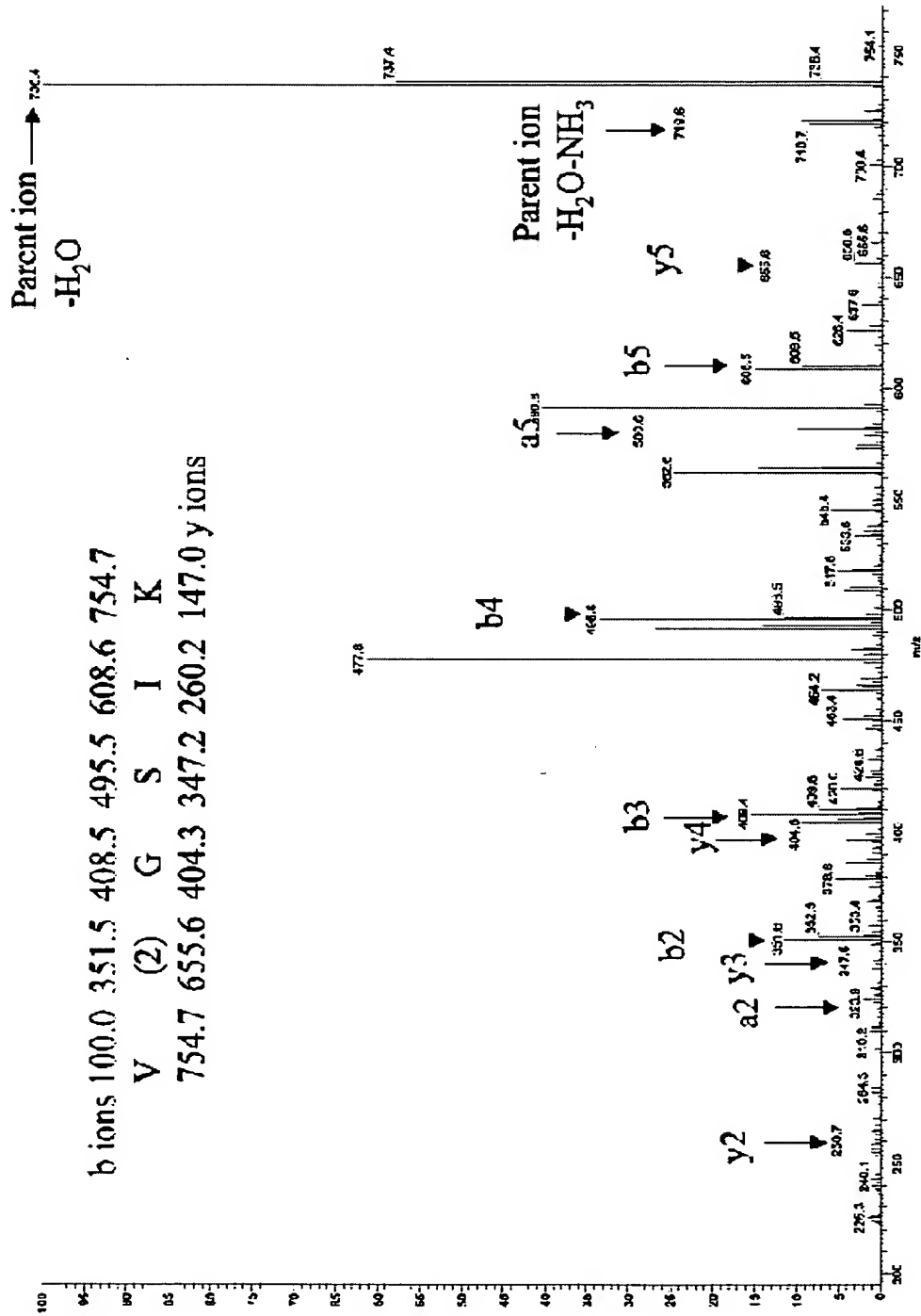


Fig. 10B

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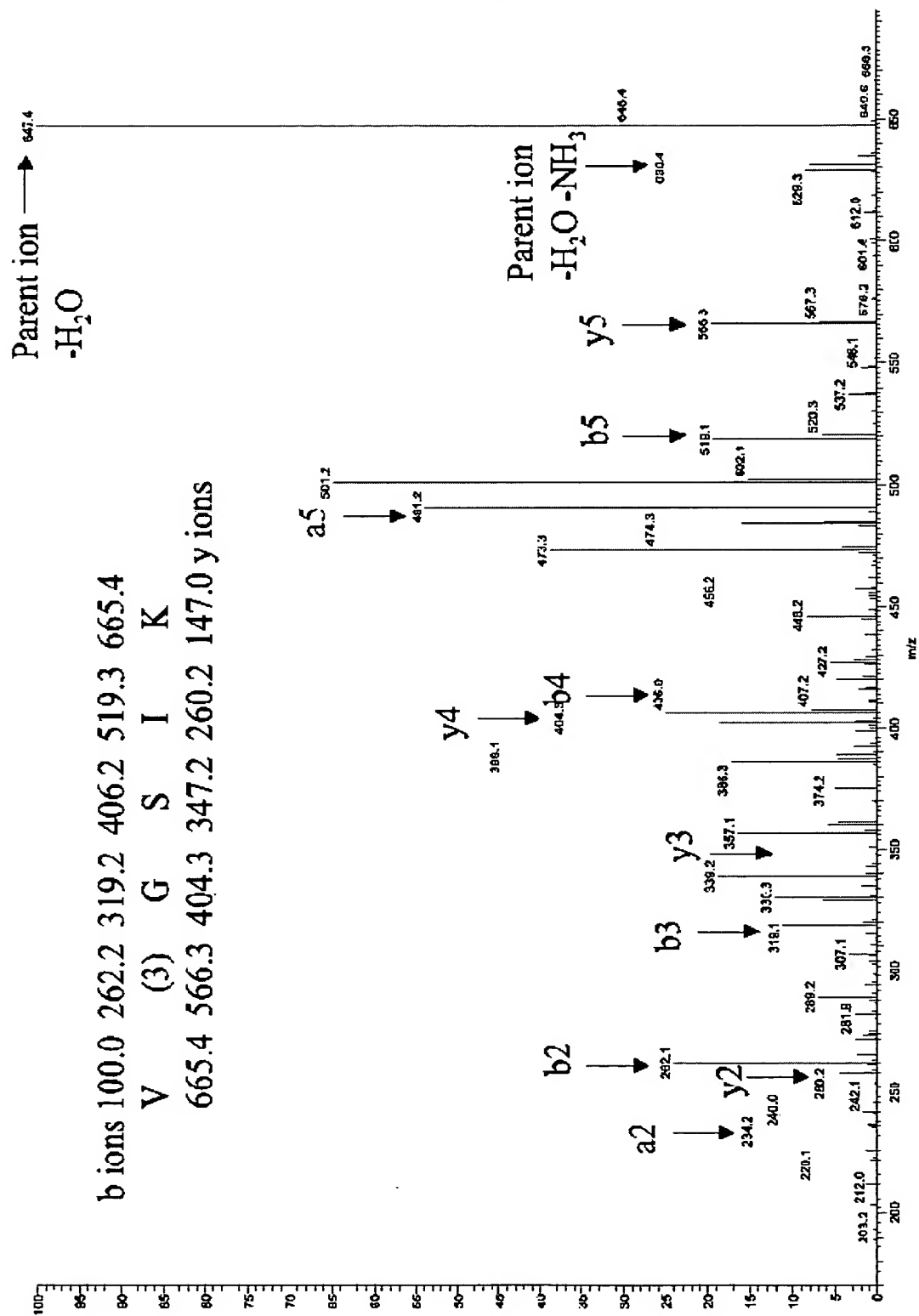


Fig. 10C

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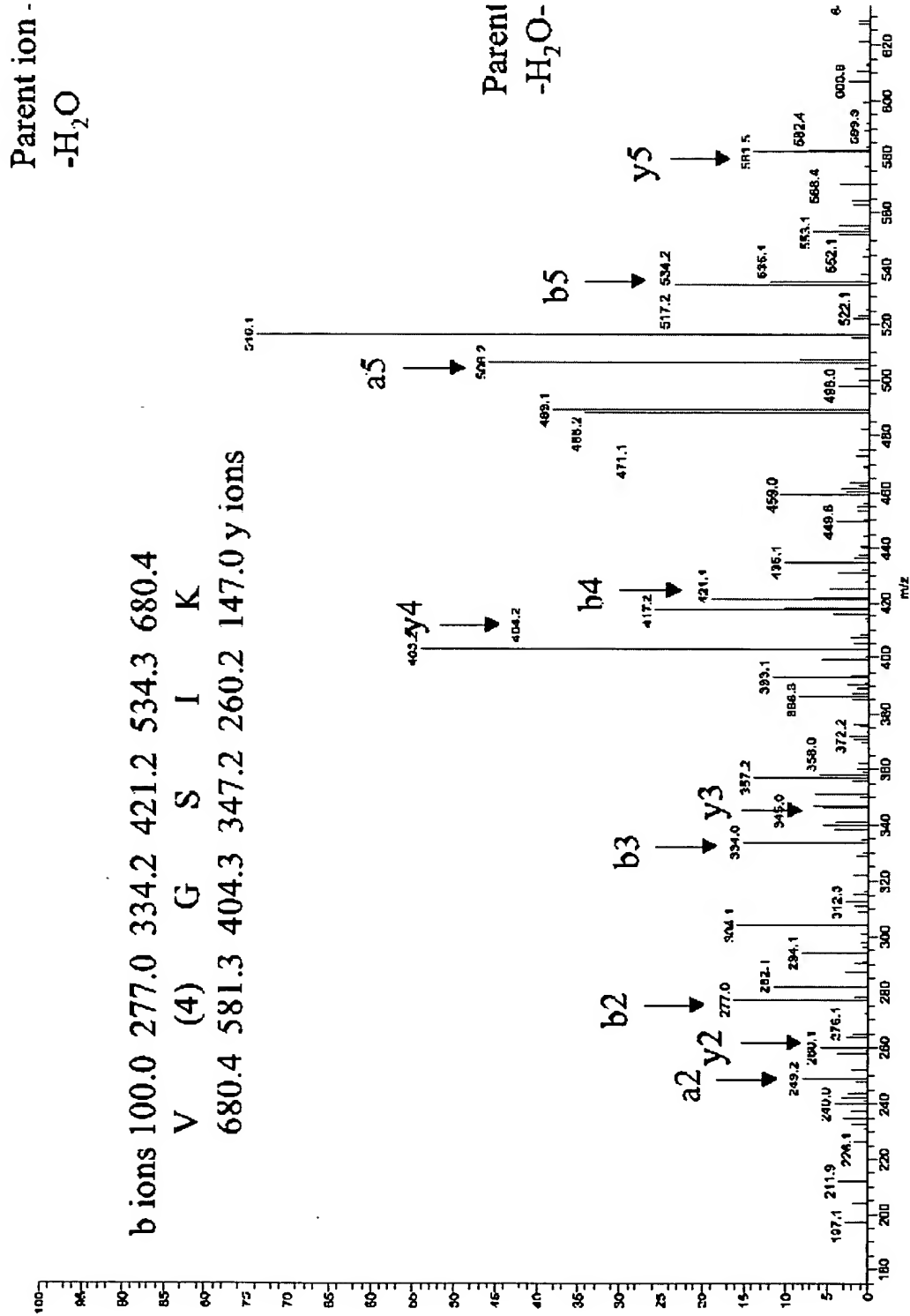


Fig. 10D

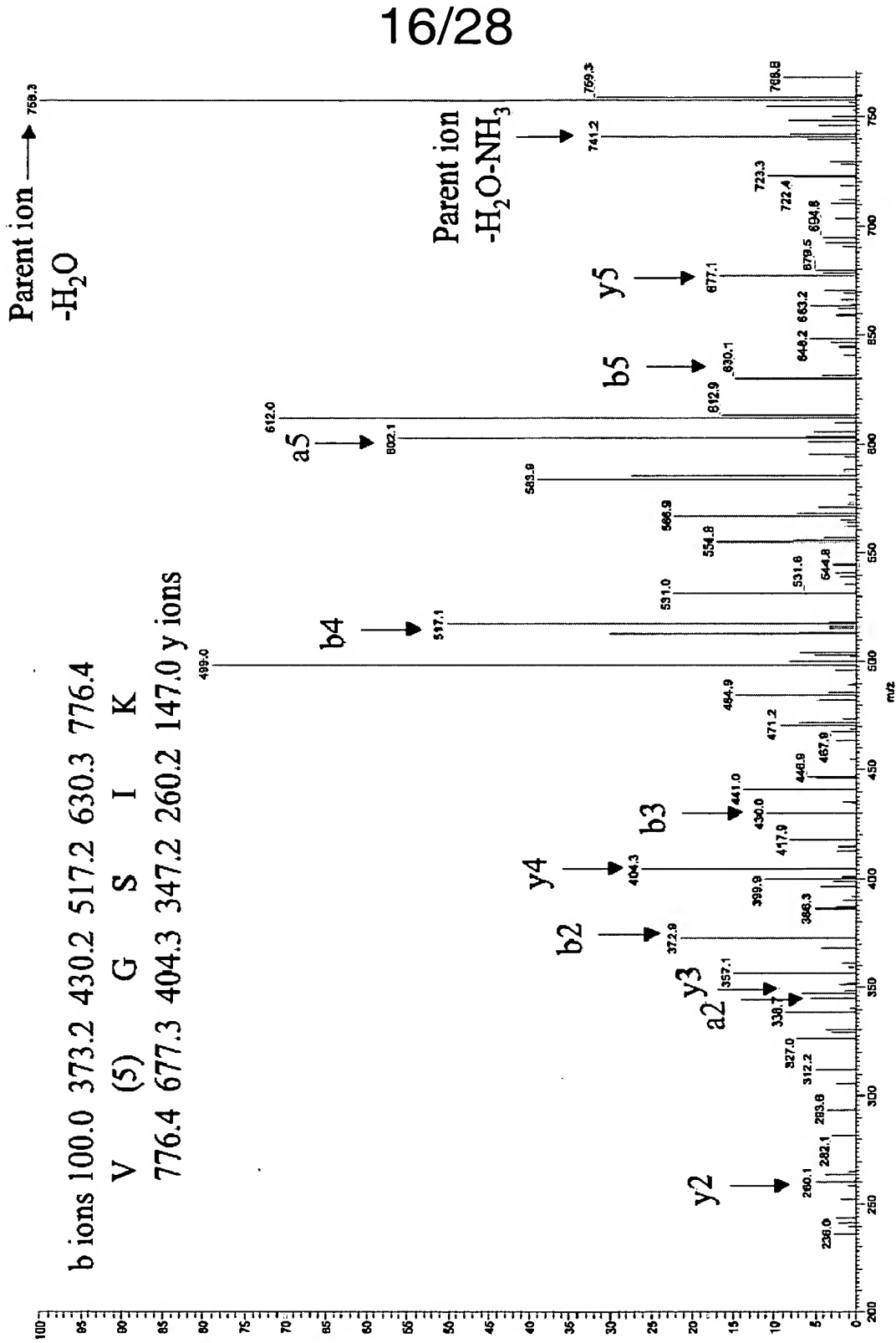


Fig. 10E



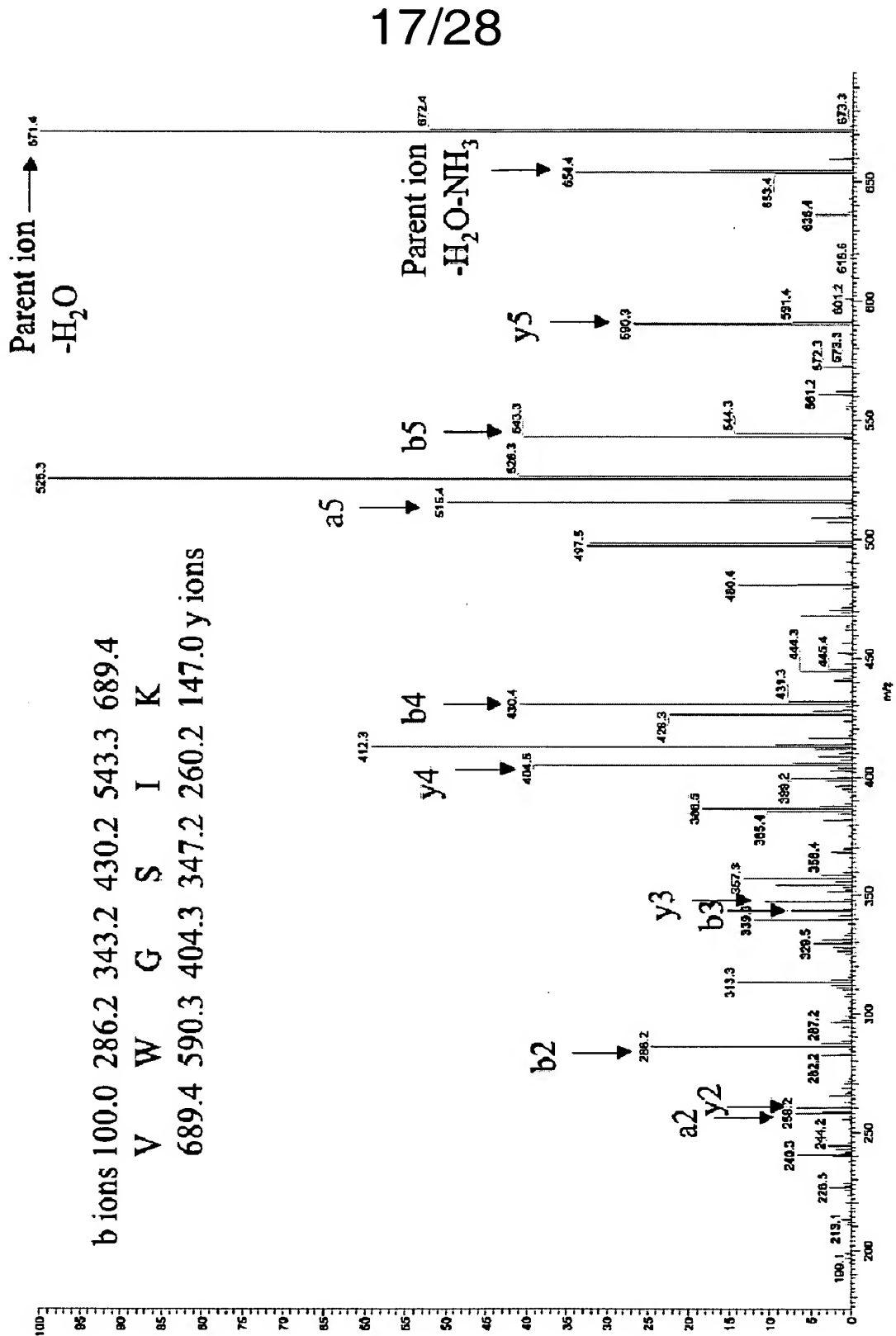


Fig. 10F

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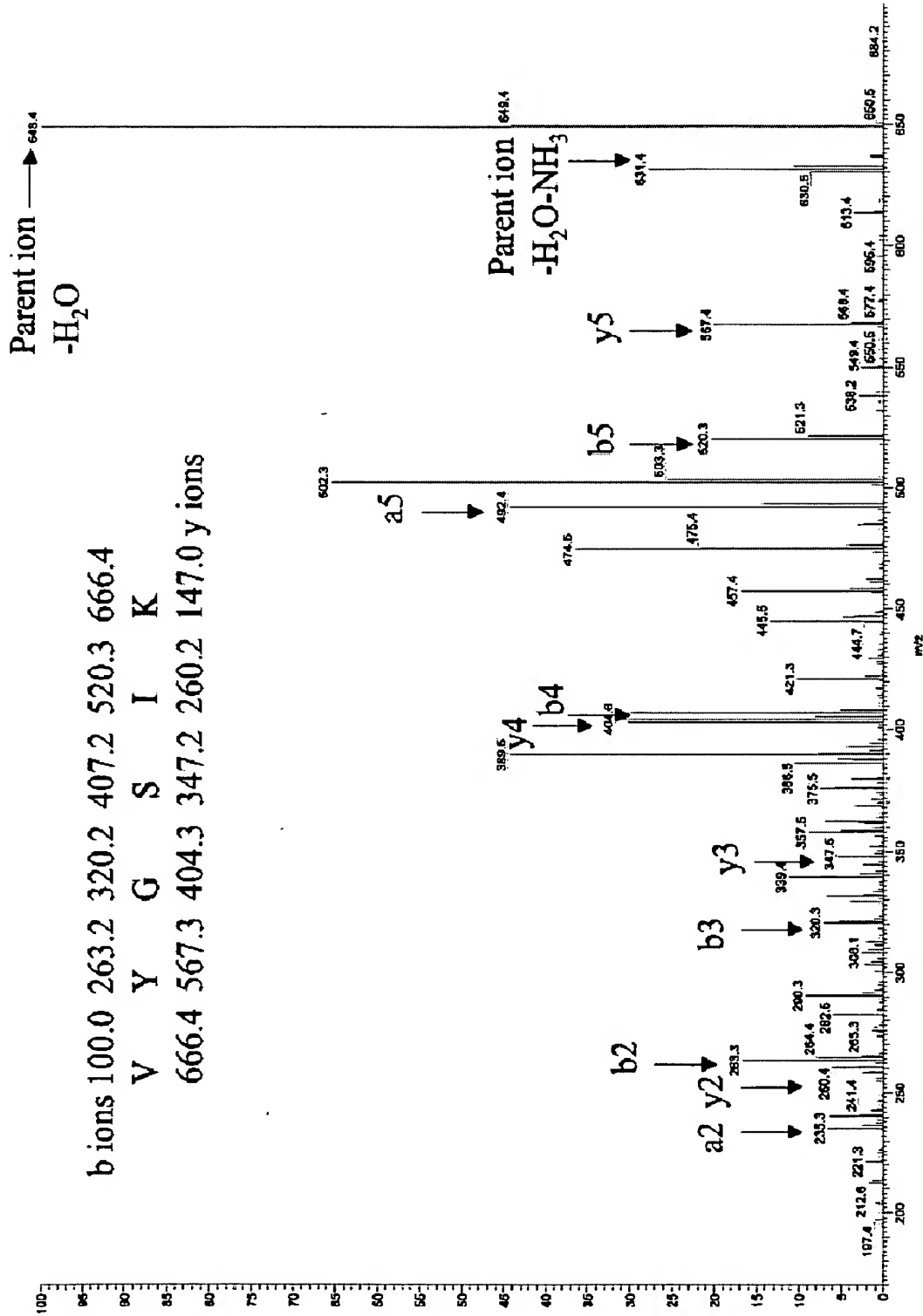


Fig. 10G

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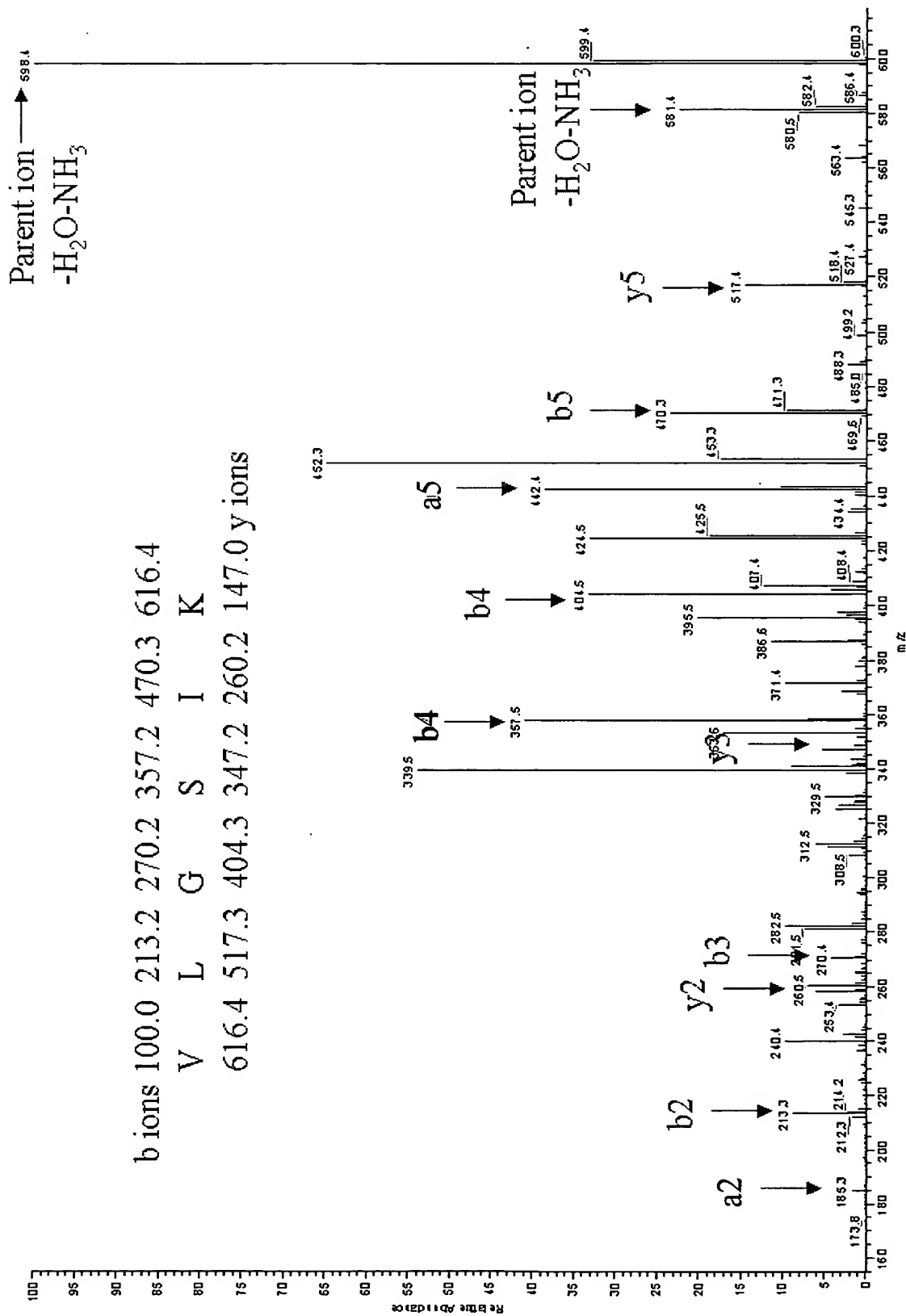


Fig. 10H

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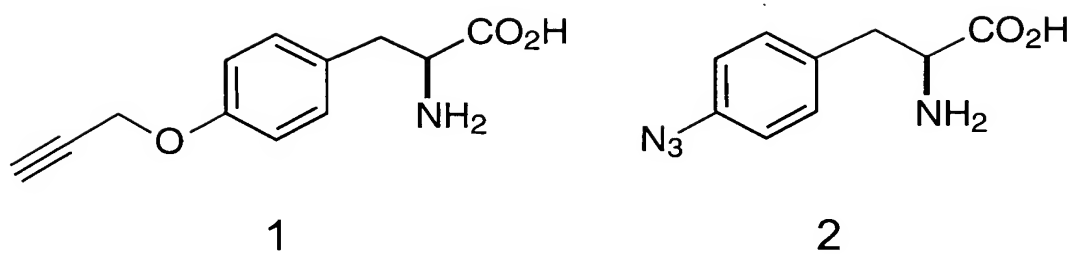


Fig. 11

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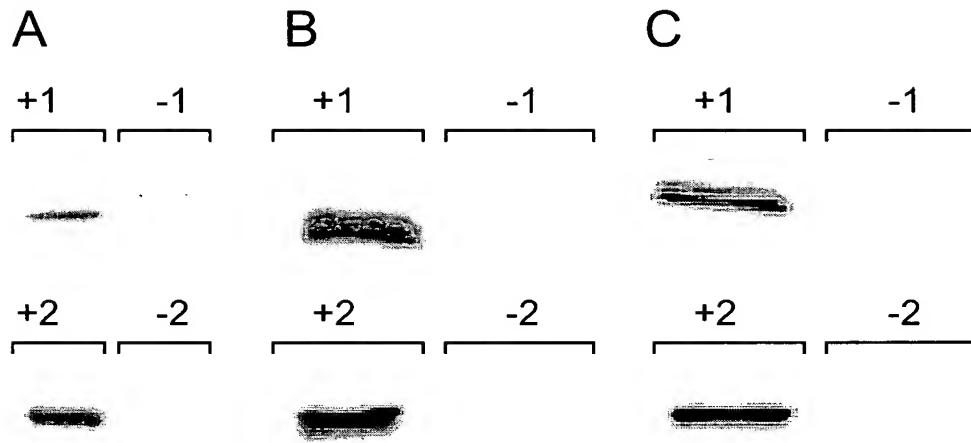
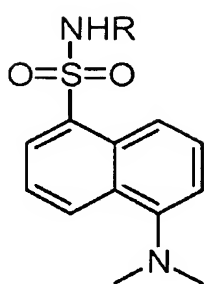


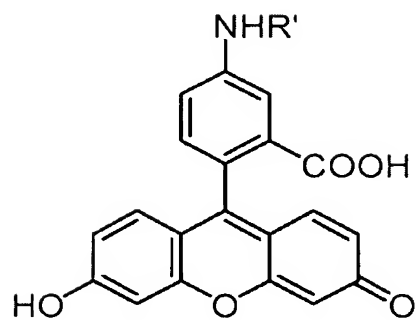
Fig. 12

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3:  $R = \text{CH}_2\text{—}\equiv\equiv$

4:  $R = (\text{CH}_2)_3\text{N}_3$



5:  $R' = \text{CO}(\text{CH}_2)_8\text{—}\equiv\equiv$

6:  $R' = \text{CO}(\text{CH}_2)_3\text{CONH}(\text{CH}_2)_3\text{N}_3$

Fig. 13A

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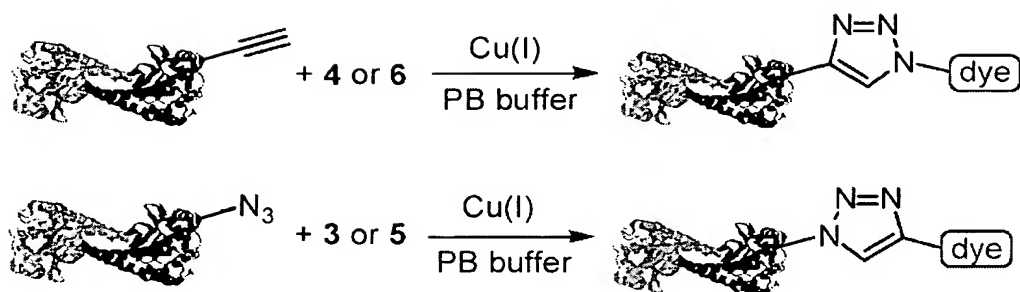


Fig. 13B

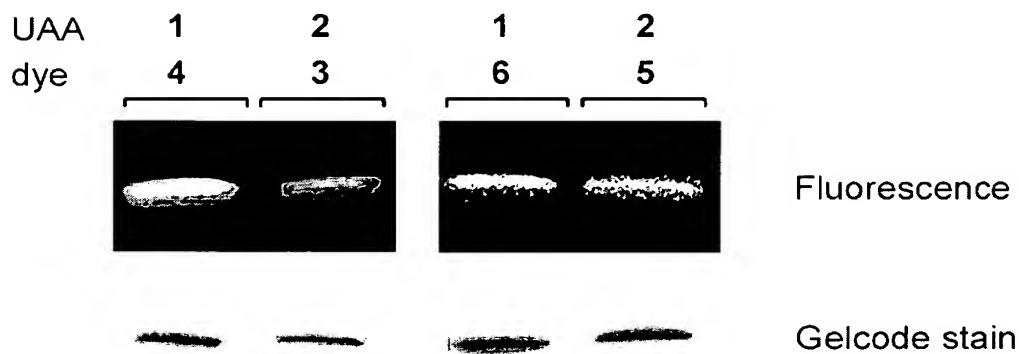


Fig. 13C

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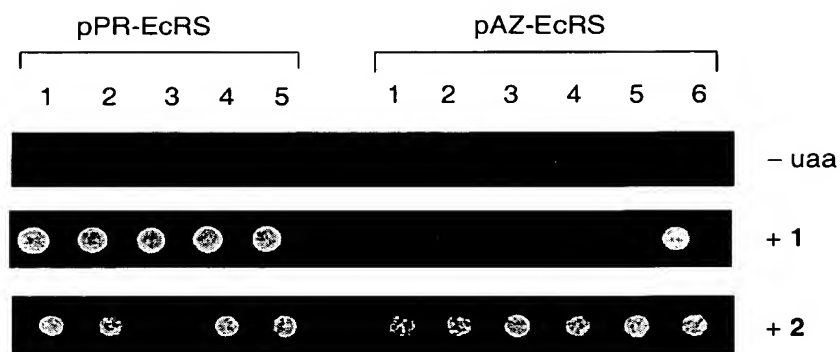


Fig. 14



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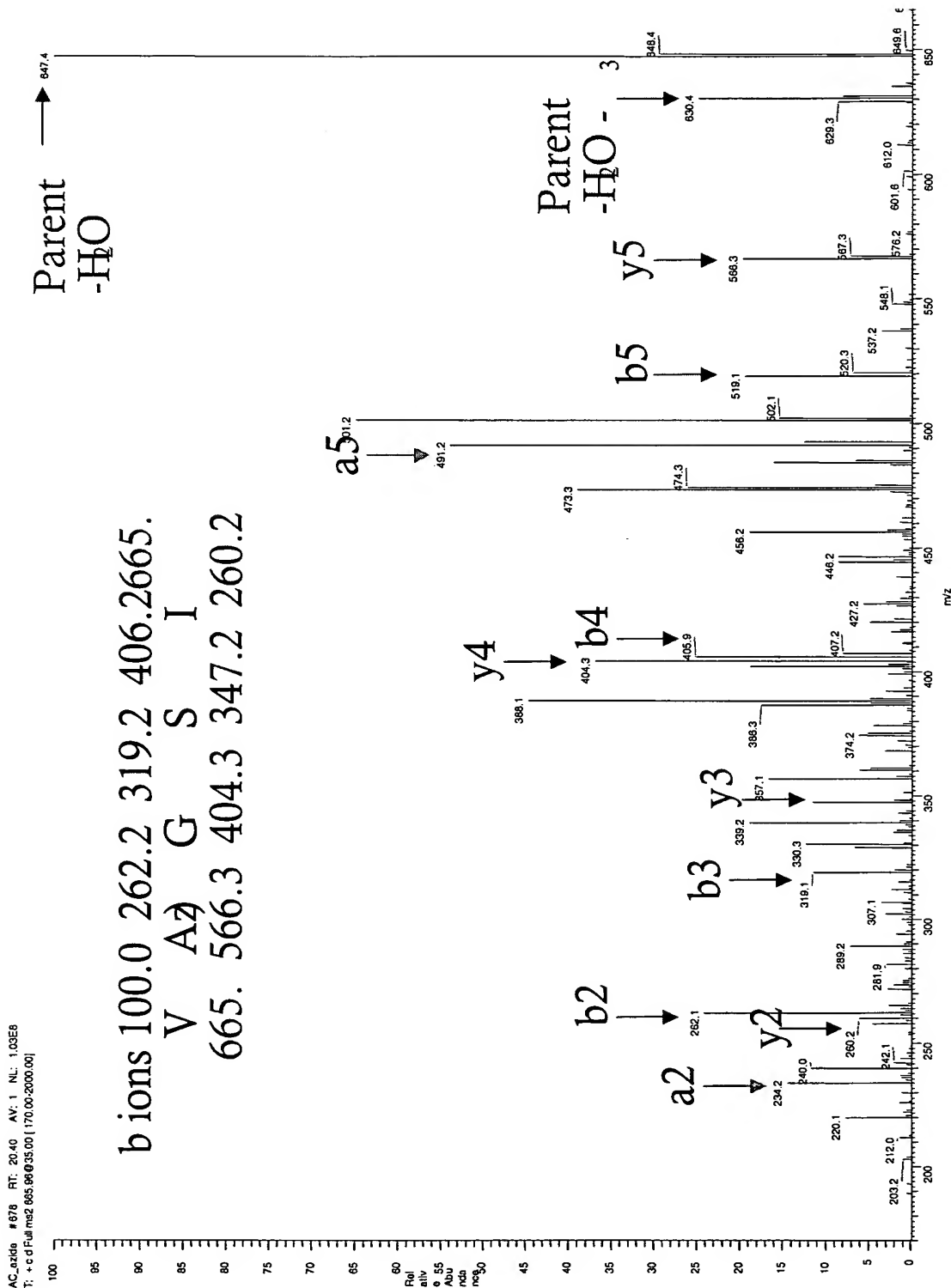


Fig. 15A

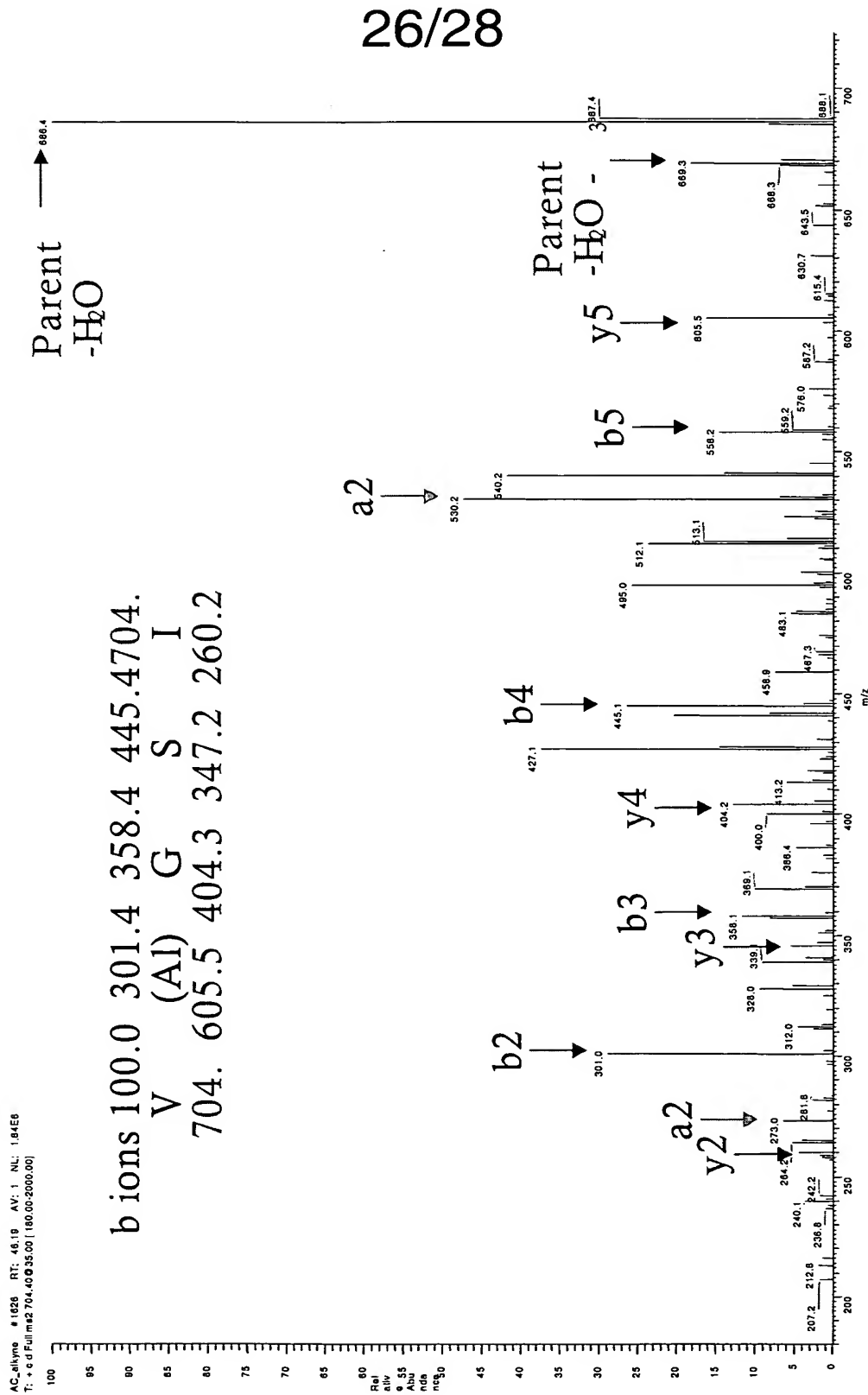


Fig. 15B

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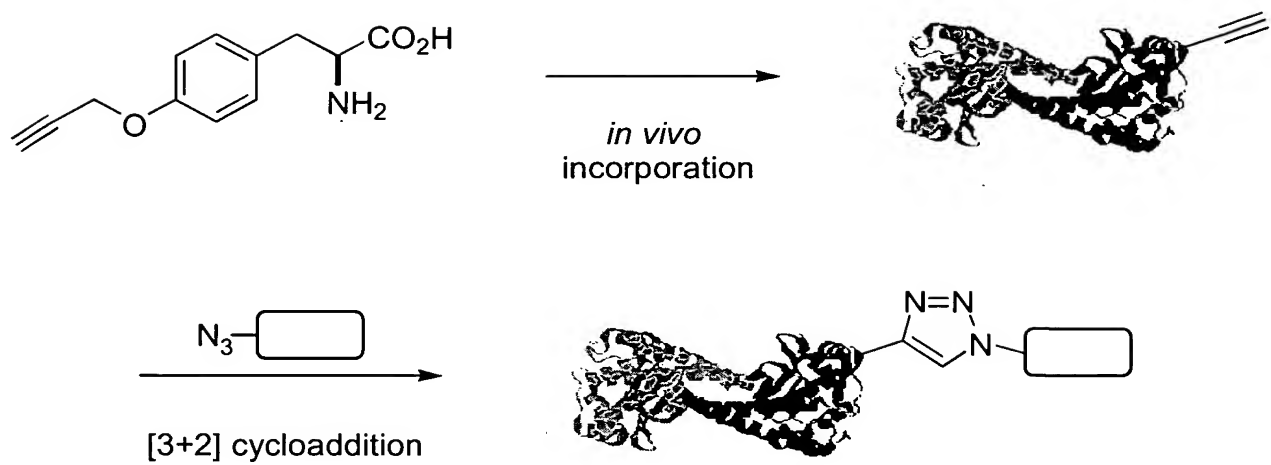


Fig. 16

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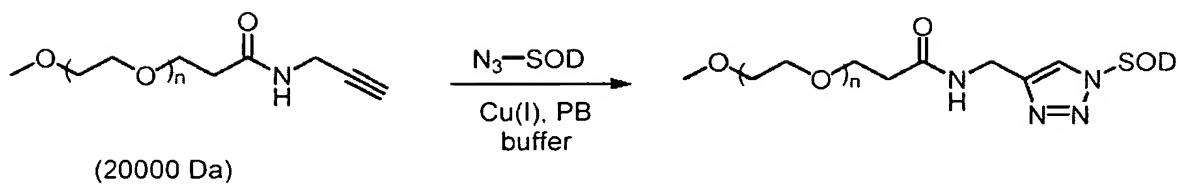


Fig. 17A

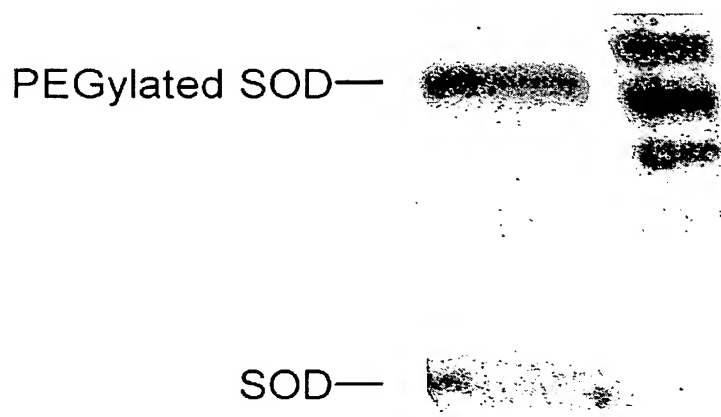


Fig. 17B

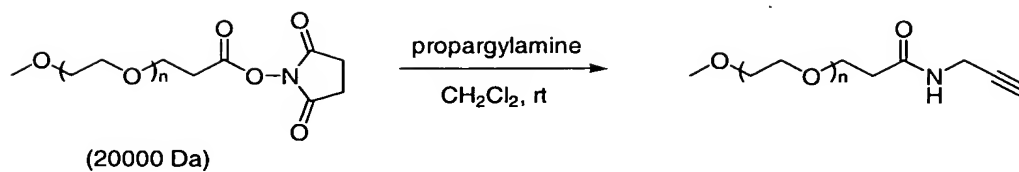


Fig. 17C